

Title (en)

METHOD AND SYSTEM FOR REJUVENATING PRESSURIZED FLUID SOLVENTS USED IN CLEANING SUBSTRATES

Title (de)

VERFAHREN UND SYSTEM ZUR AUFBEREITUNG VON UNTER DRUCK STEHENDEN FLÜSSIGEN LÖSUNGSMITTELN ZUR REINIGUNG VON SUBSTRATEN

Title (fr)

PROCEDE ET SYSTEME DE REGENERATION DE SOLVANTS FLUIDES SOUS PRESSION UTILISES POUR LE NETTOYAGE DE SUBSTRATS

Publication

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Application

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Priority

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Abstract (en)

[origin: US5772783A] Method and system of rejuvenating pressurized fluid solvents used for cleaning a substrate in a pressurized vessel. A primary flow of the pressurized fluid solvent is continuously cycled from the pressurized vessel through a series of filters to remove insoluble and soluble contaminants, and then returned to the pressurized vessel. A secondary flow of the pressurized fluid solvent, preferably equivalent to less than about 40% of the primary flow, is directed either continuously or intermittently during the cleaning operation to an evaporator to evaporate the pressurized fluid solvent of the secondary flow into a vapor and to separate contaminants therefrom. The vapor from the evaporator is then either liquified by a compressor or condenser to create rejuvenated pressurized fluid solvent and redirected to the pressurized vessel for further use, or vented to atmosphere and replaced by new pressurized fluid solvent from a supply tank. Pressure equalization lines extend between a storage tank and various system components to allow solvent vapor to displace therebetween.

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